

IL-9 (Interleukin-9), Mouse

v. 231101

Catalog number	C02010-5UG / C02010-20UG / C02010-100UG
Package	5 µg / 20 µg / 100 µg
Description	Interleukin 9, also known as IL-9, is a pleiotropic cytokine (cell signalling molecule) belonging to the group of interleukins. IL-9 is produced by variety of cells like mast cells, NKT cells, Th2, Th17, Treg, ILC2, and Th9 cells in different amounts. Among them, Th9 cells are regarded as the major CD4+ T cells that produce IL-9.
Source	<i>Escherichia coli</i>
Sequence	QRCSTTWGIRDNTNYLIENLKDDPPSKCSCSGNVTSCCLCSVPTDDCTTPCYRE GLLQLTNATQKSRLLPVHRVFKRIVEVLKNITCPSFSCEKPCNQTMAGNTLSFLK SLLGTFQKTEMQRQKSRP with polyhistidine tag at the N-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce proliferation in MO7e cells. The ED ₅₀ for this effect is <0.2 ng/mL. The specific activity of recombinant mouse IL-9 is > 5 x 10 ⁶ IU/mg.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant mouse IL-9

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